

# Commercial Space Transportation License

License Number: LLO 11-078

## LOCKHEED MARTIN COMMERCIAL LAUNCH SERVICES, INC.

is authorized, subject to the provisions of 51 USC Subtitle V, ch. 509, and the orders, rules, and regulations issued under it, to conduct launches.

General. Lockheed Martin Commercial Launch Services, Inc. is authorized to conduct:

(i) flights of Atlas V 401 launch vehicles, from Vandenberg Air Force Base (VAFB), as identified in license orders issued by the Federal Aviation Administration; and

(ii) pre-flight ground operations at VAFB associated with the flights of Atlas V 401 launch vehicles.

**This license is granted subject to the terms, conditions, and limitations set forth in the latest revisions to licensing orders A, B, C, and D, and any subsequent orders issued by the Office of Commercial Space Transportation.**

**The licensee shall at all times conduct its operations in accordance with the regulations prescribed by the Office of Commercial Space Transportation for the activities authorized by this license.**



US Department  
of Transportation  
Federal Aviation  
Administration

800 Independence Ave., S.W.  
Washington, D.C. 20591

**Issued On: December 20, 2011**  
**Effective On: December 20, 2011**

*Kenneth Wong*  
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Manager, Licensing and Evaluation Division

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**LAUNCH**

AUTHORIZED BY LICENSE NO. LLO 11-078  
ISSUED TO

LOCKHEED MARTIN COMMERCIAL LAUNCH SERVICES INC.

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1. Authority: This Order is issued to Lockheed Martin Commercial Launch Services, Inc. (LMCLS), under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLO 11-078 (the license) issued concurrently by the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation (Office), authorizing LMCLS to conduct launches; and prescribes as conditions to License No. LLO 11-078 certain requirements applicable to those launches.
3. Definitions: For purposes of License No. LLO 11-078 and any orders issued by the FAA pertaining to activities covered by License No. LLO 11-078, "launch" shall mean (a) flight and (b) pre-flight ground operations as defined in paragraphs (a) and (b) below.
  - (a) "Flight" shall mean the flight of an Atlas V 401 launch vehicle commencing with ignition of the first stage from Vandenberg Air Force Base (VAFB) on launch azimuths and transporting classes of payloads to orbital destinations, as specified in License Order No. LLO 11-078B. A nominal flight is concluded upon LMCLS's last exercise of control over the Atlas V 401 launch vehicle, including the safing of Atlas V 401 launch vehicle stages or components that reach Earth orbit, following separation of the payload.
  - (b) "Pre-flight ground operations" shall mean LMCLS's pre-flight preparation of an Atlas V 401 launch vehicle at CCAFS, beginning with the arrival of the Atlas V 401 launch vehicle at VAFB.

**License Order No. LLO 11-078A**

4. Accident Investigation Plan: LCMLS will provide the FAA with a copy of the mission specific Accident Investigation Plan (AIP) no later than 60 days prior to the planned launch date, to ensure the actions incorporated into the AIP are to the FAA's satisfaction.
5. License Term: The term of License No. LLO 11-078 authorizing LMCLS to conduct launches is five (5) years from the effective date of this license order.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

By: Kenneth Wong  
Kenneth Wong, Manager  
Licensing and Evaluation Division

Issued: December 20, 2011

Effective: December 20, 2011

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**FLIGHT**

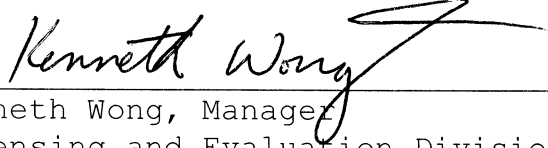
AUTHORIZED BY LICENSE NO. LLO 11-078  
ISSUED TO

LOCKHEED MARTIN COMMERCIAL LAUNCH SERVICES INC.

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1. Authority: This Order is issued to Lockheed Martin Commercial Launch Services, Inc. (LMCLS), under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLO 11-078 (the license) issued concurrently by the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation (Office), authorizing LMCLS to conduct launches; and prescribes as conditions to License No. LLO 11-078 certain requirements applicable to the authorization to conduct flights.
3. Authorization: LMCLS is authorized to conduct flights:
  - (a) Using Atlas V 401 launch vehicles;
  - (b) From Vandenberg Air Force Base (VAFB), California;
  - (c) On launch azimuths, inclusive between 180.0 to 190.0 degrees for the Atlas V 401;
  - (d) Transporting (i) U.S. government payloads and (ii) non-government communication, navigation, remote-sensing, and scientific satellites, to sun synchronous orbit as described in the LMCLS license application; and
  - (e) According to the launch vehicle, launch vehicle systems, and safety management program represented in the LMCLS license application as of the date of this Order, and any amendments to the license application approved by the Office, in writing.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

By:   
Kenneth Wong, Manager  
Licensing and Evaluation Division

Issued: December 20, 2011

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OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**PRE-FLIGHT GROUND OPERATIONS**

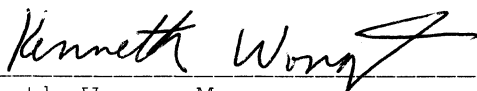
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1. Authority: This Order is issued to Lockheed Martin Commercial Launch Services, Inc. (LMCLS), under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. Ch. III.
2. Purpose: This Order modifies License No. LLO 11-078 (the license) issued concurrently by the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation (Office), authorizing LMCLS to conduct launches; and prescribes as conditions to License No. LLO 11-078 certain requirements applicable to the authorization to conduct pre-flight ground operations.
3. Authorization: LMCLS is authorized to conduct pre-flight preparation of an Atlas V 401 launch vehicle at VAFB, beginning with the arrival of the Atlas V 401 launch vehicle at VAFB.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

By:   
Kenneth Wong, Manager  
Licensing and Evaluation Division

Issued: December 20, 2011

Effective: December 20, 2011

OFFICE OF  
COMMERCIAL SPACE TRANSPORTATION  
LICENSE ORDER REGARDING

**FINANCIAL RESPONSIBILITY REQUIREMENTS**

Under License No. 11-078  
Issued to

LOCKHEED MARTIN COMMERCIAL LAUNCH SERVICES INC.

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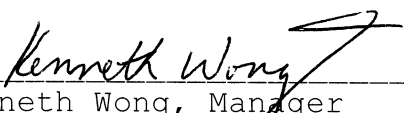
1. Authority: This Order is issued to Lockheed Martin Commercial Launch Services, Inc. (LMCLS), under 51 U.S.C. Subtitle V, chapter 509, and 14 C.F.R. part 440.
2. Purpose: This Order modifies License No. LLO 11-078 (the license) issued concurrently by the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation (Office) by prescribing financial responsibility requirements for licensed launch activities in accordance with 14 C.F.R. part 440.
3. Liability Insurance: In accordance with 14 C.F.R. § 440.9(b), LMCLS shall maintain a policy or policies of liability insurance (or otherwise demonstrate financial responsibility) in the following amounts:
  - (a) Nine Million Dollars (\$9,000,000) for covered claims resulting from pre-flight ground operations performed at VAFB for all Atlas V 401 launches.
  - (b) Thirty-Six Million Dollars (\$36,000,000) for covered claims resulting from flight of a licensed Atlas V 401 launch.
4. Government Property Insurance: Covered property includes all property owned, leased, or occupied by, or within the care, custody, or control of, the United States and its agencies, and its contractors, and subcontractors involved in licensed launch activities, at VAFB. LMCLS shall maintain a policy or policies of insurance (or otherwise demonstrate financial responsibility) in accordance with

**License Order No. LLO 11-078D**

14 C.F.R § 440.9(d) in the following amounts:

- (a) Two Million, Three-Hundred Thousand Dollars (\$2,300,000) for covered claims resulting from pre-flight ground operations performed at VAFB for all Atlas V 401 launches.
- (b) Twenty-One Million Dollars (\$21,000,000) for covered claims resulting from flight of a licensed Atlas V 401 launch:

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FEDERAL AVIATION ADMINISTRATION

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